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| Substitute Form PTO-1449<br>(Modified)   | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>10559-076002 | Application No.        |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br>Debra Bernstein et al.   |                        |
|  |  | Filing Date<br>August 19, 2003        | Group Art Unit<br>2183 |

| U.S. Patent Documents |           |                 |                  |                   |       |          |                            |
|-----------------------|-----------|-----------------|------------------|-------------------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee          | Class | Subclass | Filing Date If Appropriate |
| EC                    | AA        | 3,940,745       | 02/24/76         | Sajeva, Raoul     | 712   | 244      |                            |
|                       | AB        | 3,373,408       | 3/12/68          | A.T. Ling         | 712   | 228      |                            |
|                       | AC        | 5,630,130       | 5/13/97          | Perotto et al.    | 718   | 107      |                            |
|                       | AD        | 5,680,641       | 10/21/97         | Sidman            | 710   | 20       |                            |
|                       | AE        | 5,761,522       | 6/1998           | Hisanaga et al.   | 712   | 1        |                            |
|                       | AF        | 5,557,766       | 9/1996           | Takiguchi et al.  | 711   | 5        |                            |
|                       | AG        | 5,742,822       | 4/1998           | Motomura, Masato  | 718   | 102      |                            |
|                       | AH        | 6,223,279       | 4/2001           | Nishimura et al.  | 712   | 228      |                            |
| EC                    | AI        | 6,216,220       | 4/2001           | Hwang, Myeong Eun | 712   | 219      |                            |
|                       | AJ        |                 |                  |                   |       |          |                            |
|                       | AK        |                 |                  |                   |       |          |                            |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                           |       |          |             |    |
|---|-----------|-----------------|------------------|---------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office  | Class | Subclass | Translation |    |
|   |           |                 |                  |                           |       |          | Yes         | No |
| EC  | AL        | EP 0 745 933    | 12-4-96          | EPO                       |       |          |             |    |
| EC  | AM        | 59111533        | 27-06-84         | Patent Abstracts of Japan |       |          |             |    |
|   | AN        |                 |                  |                           |       |          |             |    |
|   | AO        |                 |                  |                           |       |          |             |    |
|   | AP        |                 |                  |                           |       |          |             |    |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |   |
|---|-----------|---|
| Examiner Initial  | Desig. ID | Document  |
| EC  | AQ        | "Multithreaded Processor Architectures", G.T. Byrd et al., IEEE Spectrum, IEEE Inc., New York, US, Vol. 32, No. 8, 8-1-95, pps. 38-46.            |
| EC  | AR        | "A Processor Architecture For Horizon", M.R. Thistle et al., Orlando, Washington, IEEE Comp. Soc. Press., US, Vol. Conf. 1, 11-14-88, pps. 35-41. |
| EC  | AS        | "Strongarming Portable Communications", T. Litch et al., IEEE Micro, US, IEEE, Inc., New York, Vol. 18, No. 2, 3-1-98, pps. 48-55.                |
|   | AT        |   |

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| Examiner Signature<br><i>Eui Q</i>   | Date Considered<br>4/15/05 |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                            |

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| Substitute Form PTO-1449<br>(Modified)   | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>10559-076002 | Application No.<br>10/643,438 |
| <b>Information Disclosure Statement</b><br><b>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.88(b)) |  | Applicant<br>Debra Bernstein et al.   |                               |
|  |  | Filing Date<br>08/19/03               | Group Art Unit<br>Unknown     |

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| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee           | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|-----------------|------------------|--------------------|-------|----------|----------------------------|
| EC               | AA        | 6,694,380       | 02/17/2004       | Wolrich et al.     | 710   | 5        |                            |
|                  | AB        | 6,681,300       | 01/20/2004       | Wolrich et al.     | 711   | 152      |                            |
|                  | AC        | 6,668,317       | 12/23/2003       | Bernstein et al.   | 712   | 245      |                            |
|                  | AD        | 6,667,920       | 06/09/2003       | Wolrich et al.     | 365   | 201      |                            |
|                  | AE        | 6,661,794       | 12/09/2003       | Wolrich et al.     | 370   | 394      |                            |
|                  | AF        | 6,631,462       | 10/07/2003       | Wolrich et al.     | 712   | 225      |                            |
|                  | AG        | 6,631,430       | 10/07/2003       | Wolrich et al.     | 710   | 100      |                            |
|                  | AH        | 6,625,654       | 09/23/2003       | Wolrich et al.     | 709   | 230      |                            |
|                  | AI        | 6,606,704       | 08/12/2003       | Adiletta et al.    | 712   | 248      |                            |
|                  | AJ        | 6,587,906       | 07/01/2003       | Wolrich et al.     | 710   | 240      |                            |
|                  | AK        | 6,584,522       | 06/24/2003       | Wolrich et al.     | 710   | 100      |                            |
|                  | AL        | 6,577,542       | 06/10/2003       | Wolrich et al.     | 365   | 189.01   |                            |
|                  | AM        | 6,560,667       | 05/06/2003       | Wolrich et al.     | 710   | 310      |                            |
|                  | AN        | 6,552,826       | 04/22/2003       | Adler et al.       | 358   | 442      |                            |
|                  | AO        | 6,532,509       | 03/11/2003       | Wolrich et al.     | 710   | 240      |                            |
|                  | AP        | 6,463,072       | 10/08/2002       | Wolrich et al.     | 370   | 439      |                            |
|                  | AQ        | 6,434,145       | 08/13/2002       | Opsasnick et al.   | 370   | 394      |                            |
|                  | AR        | 6,430,626       | 08/06/2002       | Witkowski et al.   | 709   | 249      |                            |
|                  | AS        | 6,427,196       | 07/30/2002       | Adiletta et al.    | 711   | 158      |                            |
|                  | AT        | 6,426,940       | 07/30/2002       | Seo et al.         | 370   | 216      |                            |
|                  | AU        | 6,415,338       | 07/02/2002       | Habot              | 710   | 22       |                            |
|                  | AV        | 6,393,483       | 05/21/2002       | Latif et al.       | 709   | 226      |                            |
|                  | AW        | 6,389,449       | 05/14/2002       | Nermirovsky et al. | 718   | 108      |                            |
|                  | AX        | 6,373,848       | 04/16/2002       | Allison et al.     | 370   | 401      |                            |
|                  | AY        | 6,360,262       | 03/19/2002       | Guenther et al.    | 709   | 226      |                            |
|                  | AZ        | 6,356,692       | 03/12/2002       | Kasper et al.      | 385   | 129      |                            |
| EC               | AAA       | 6,347,344       | 02/12/2002       | Baker et al.       | 710   | 20       |                            |

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|  | Applicant<br>Debra Bernstein et al.                        |  |                                       |                               |
|  | Filing Date<br>08/19/03                                    |  | Group Art Unit<br>Unknown             |                               |

## U.S. Patent Documents

| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee          | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|-----------------|------------------|-------------------|-------|----------|----------------------------|
| EC               | ABB       | 6,345,334       | 02/05/2002       | Nakagawa et al.   | 711   | 104      |                            |
|                  | ACC       | 6,324,624       | 11/27/01         | Wolrich et al.    | 711   | 152      |                            |
|                  | ADD       | 6,307,789       | 10/23/2001       | Wolrich et al.    | 365   | 189.01   |                            |
|                  | AEE       | 6,298,370       | 10/02/2001       | Tang et al.       | 718   | 102      |                            |
|                  | AFF       | 6,289,011       | 09/11/2001       | Seo et al.        | 370   | 388      |                            |
|                  | AGG       | 6,279,113       | 08/21/2001       | Vaidya            | 713   | 201      |                            |
|                  | AHH       | 6,275,505       | 08/14/2001       | O'Loughlin et al. | 370   | 388      |                            |
|                  | ALL       | 6,272,616       | 08/07/2001       | Fernando et al.   | 712   | 20       |                            |
|                  | AJJ       | 6,256,713       | 07/03/2001       | Audityan et al.   | 711   | 141      |                            |
|                  | AKK       | 6,247,025       | 06/12/2001       | Bacon             | 707   | 206      |                            |
|                  | ALL       | 6,223,279       | 04/24/2001       | Nishimura et al.  | 712   | 228      |                            |
|                  | AMM       | 6,223,238       | 04/24/2001       | Meyer et al.      | 710   | 312      |                            |
|                  | ANN       | 6,223,207       | 04/24/2001       | Lucovsky et al.   | 718   | 107      |                            |
|                  | AOO       | 6,216,220       | 04/10/2001       | Hwang             | 712   | 219      |                            |
|                  | APP       | 6,212,611       | 04/03/2001       | Nizar et al.      | 711   | 169      |                            |
|                  | AQQ       | 6,212,542       | 04/03/2001       | Kahle et al.      | 718   | 102      |                            |
|                  | ARR       | 6,201,807       | 03/18/2001       | Prasanna          | 370   | 389      |                            |
|                  | ASS       | 6,199,133       | 03/06/2001       | Schnell           | 710   | 110      |                            |
|                  | ATT       | 6,195,676       | 02/27/2001       | Spix et al.       | 718   | 107      |                            |
|                  | AUU       | 6,182,177       | 01/30/2001       | Harriman          | 710   | 112      |                            |
|                  | AVV       | 6,160,562       | 12/12/2000       | Chin et al.       | 345   | 520      |                            |
|                  | AWW       | 6,157,955       | 12/05/2000       | Narad et al.      | 709   | 228      |                            |
|                  | AXX       | 6,145,054       | 11/07/2000       | Mehrotra et al.   | 711   | 119      |                            |
|                  | AYY       | 6,144,669       | 11/07/2000       | Williams et al.   | 370   | 401      |                            |
|                  | AZZ       | 6,141,765       | 10/31/2000       | Sherman           | 713   | 400      |                            |
|                  | AAAA      | 6,141,689       | 10/31/2000       | Yasrebi           | 709   | 228      |                            |
| EC.              | ABBB      | 6,134,665       | 10/17/2000       | Klein et al.      | 713   | 300      |                            |

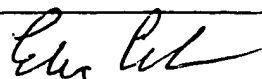
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| Substitute Form PTO-1449<br>(Modified) | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>10559-076002 | Application No.<br>10/643,438 |
|  |  | Applicant<br>Debra Bernstein et al.   |                               |
|  |  | Filing Date<br>08/19/03               | Group Art Unit<br>Unknown     |

**Information Disclosure Statement**  
**by Applicant**  
 (Use several sheets if necessary)


(37 CFR §1.98(b))

| U.S. Patent Documents |                 |                      |                       |                            |       |                    |                            |
|-----------------------|-----------------|----------------------|-----------------------|----------------------------|-------|--------------------|----------------------------|
| Examiner Initial      | Desig. ID       | Document Number      | Publication Date      | Patentee                   | Class | Subclass           | Filing Date If Appropriate |
| EC                    | ACCC            | 6,112,016            | 08/29/2000            | MacWilliams et al.         | 710   | 107                |                            |
|                       | ADDD            | 6,092,158            | 07/18/2000            | Harriman et al.            | 711   | 151                |                            |
|                       | AEEE            | 6,092,127            | 07/18/2000            | Tausheck                   | 710   | 56                 |                            |
|                       | AFFF            | 6,085,294            | 07/04/2000            | Van Doren et al.           | 711   | 144                |                            |
|                       | AGGG            | 6,085,215            | 07/04/2000            | Ramakrishnan et al.        | 718   | 102                |                            |
|                       | AHHH            | 6,079,008            | 06/20/2000            | Clery, III                 | 712   | 11                 |                            |
|                       | AIII            | 6,073,215            | 06/06/2000            | Snyder                     | 711   | 137                |                            |
|                       | AJJJ            | 6,072,781            | 06/06/2000            | Feeney et al.              | 370   | 282                |                            |
|                       | AKKK            | 6,070,231            | 05/30/2000            | Ottinger                   | 711   | 141                |                            |
|                       | ALLL            | 6,067,585            | 05/23/2000            | Hoang                      | 710   | 11                 |                            |
|                       | AMMM            | 6,058,168            | 05/02/2000            | Braband                    | 379   | 93.24              |                            |
|                       | ANNN            | 6,023,742            | 02/08/2000            | Ebeling et al.             | 710   | 107                |                            |
|                       | AOOO            | 6,014,729            | 01/11/2000            | Lannan et al.              | 711   | 150                |                            |
|                       | APPP            | 6,012,151            | 01/04/2000            | Mano                       | 714   | 11                 |                            |
|                       | AQQQ            | 5,983,274            | 11/09/1999            | Hyder et al.               | 709   | 230                |                            |
| EC                    | ARRR            | 5,978,838            | 11/02/1999            | Mohammed et al.            | 709   | 208                |                            |
|                       | <del>ASSS</del> | <del>5,978,838</del> | <del>11/02/1999</del> | <del>Heinrich et al.</del> |       |                    |                            |
| EC                    | ATTT            | 5,970,013            | 10/19/1999            | Fischer et al.             | 365   | 230.01             |                            |
|                       | AUUU            | 5,961,628            | 10/05/1999            | Nguyen et al.              | 712   | 2                  |                            |
|                       | AVVV            | 5,958,031            | 09/28/1999            | Kime                       | 710   | 310                |                            |
|                       | AWWW            | 5,948,081            | 09/07/1999            | Foster                     | 710   | 40                 |                            |
|                       | AXXX            | 5,946,487            | 08/31/1999            | Dangelo                    | 717   | 148                |                            |
|                       | AYYY            | 5,940,866            | 08/17/1997            | Chisholm et al.            | 711   | 170                |                            |
|                       | AZZZ            | 5,940,612            | 08/17/1999            | Brady et al.               | 718   | <del>170</del> 103 |                            |
|                       | AAAAA           | 5,937,187            | 08/21/1995            | Kosche et al.              | 718   | 104                |                            |
|                       | ABBBB           | 5,928,736            | 08/17/1999            | Muller et al.              | 428   | 34.5               |                            |
| EC                    | ACCCC           | 5,915,123            | 06/22/1999            | Mirsky et al.              | 712   | 16                 |                            |

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|  | Applicant<br>Debra Bernstein et al.                        |                                       |                               |
|  | Filing Date<br>08/19/03                                    | Group Art Unit<br>Unknown             |                               |

| U.S. Patent Documents |           |                 |                  |                      |       |                   |                            |
|-----------------------|-----------|-----------------|------------------|----------------------|-------|-------------------|----------------------------|
| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee             | Class | Subclass          | Filing Date If Appropriate |
| ES                    | ADDDDD    | 5,905,889       | 05/18/1999       | Wilhelm, Jr.         | 718   | 104               |                            |
|                       | AEEEE     | 5,905,876       | 08/18/1999       | Pawlowski et al.     | 710   | 112               |                            |
|                       | AFFFF     | 5,892,979       | 04/06/1999       | Shiraki et al.       | 710   | 52                |                            |
|                       | AGGGG     | 5,890,208       | 03/30/1999       | Kwon                 | 711   | 112               |                            |
|                       | AHHHH     | 5,887,134       | 03/23/1999       | Ebrahim              | 709   | 200               |                            |
|                       | AIIII     | 5,886,992       | 03/23/1999       | Raatikaian et al.    | 370   | 410               |                            |
|                       | AJJJJ     | 5,860,158       | 01/12/1999       | Pai et al.           | 711   | 118               |                            |
|                       | AKKKK     | 5,854,922       | 12/29/1998       | Gravenstein et al.   | 712   | 245               |                            |
|                       | ALLLL     | 5,835,755       | 11/10/1998       | Stellwagen, Jr.      | 707   | 245               |                            |
|                       | AMMMM     | 5,832,215       | 11/03/1998       | Kato et al.          | 709   | 230               |                            |
|                       | ANNNN     | 5,828,863       | 10/27/1998       | Barrett et al.       | 709   | <del>230</del> 24 |                            |
|                       | AOOOO     | 5,828,746       | 10/27/1998       | Ardon                | 379   | 230               |                            |
|                       | APPPP     | 5,812,868       | 11/22/1998       | Moyer et al.         | 712   | 23                |                            |
|                       | AQQQQ     | 5,809,530       | 09/15/1998       | Samra et al.         | 711   | 140               |                            |
|                       | ARRRR     | 5,809,235       | 09/15/1998       | Sharma et al.        | 709   | 230               |                            |
|                       | ASSSS     | 5,797,043       | 08/18/1998       | Lewis et al.         | 710   | 522               |                            |
|                       | ATTTT     | 5,796,413       | 08/18/1998       | Shipp et al.         | 345   | 219               |                            |
|                       | AUUUU     | 5,784,712       | 07/21/1998       | Byers et al.         | 711   | 219               |                            |
|                       | AVVVV     | 5,784,649       | 07/21/1998       | Begur et al.         | 710   | 52                |                            |
|                       | AWWWW     | 5,781,774       | 07/14/1998       | Krick                | 713   | 1                 |                            |
|                       | AXXXX     | 5,761,522       | 06/02/1998       | Hisanga et al.       | 712   | 1                 |                            |
|                       | AYYYY     | 5,761,507       | 06/02/1998       | Govett               | 718   | 101               |                            |
|                       | AZZZZ     | 5,751,987       | 04/12/1998       | Mahant-Shetti et al. | 711   | 5                 |                            |
|                       | AAAAAA    | 5,745,913       | 04/28/1998       | Pattin et al.        | 711   | 105               |                            |
|                       | BBBBBB    | 5,742,822       | 04/21/1998       | Motomura             | 718   | 102               |                            |
|                       | ACCCCC    | 5,742,782       | 04/21/1998       | Ito et al.           | 370   | 235               |                            |
| ES                    | ADDDDD    | 5,742,587       | 04/21/1998       | Zornig et al.        | 52    | 745.05            |                            |

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|  | Filing Date<br>08/19/03                                    | Group Art Unit<br>Unknown             |                               |

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| EC                    | AEEEEEE   | 5,721,870       | 02/24/1998       | Matsumoto            | 711   | 152      |                            |
|                       | AFFFFF    | 5,717,898       | 02/10/1998       | Kagan et al.         | 711   | 145      |                            |
|                       | AGGGGG    | 5,699,537       | 12/16/1997       | Sharangpani et al.   | 712   | 217      |                            |
|                       | AHHHHH    | 5,689,566       | 11/18/1997       | Nguyen               | 713   | 155      |                            |
|                       | AIIIII    | 5,680,641       | 10/21/1997       | Sidman               | 710   | 20       |                            |
|                       | AJJJJJ    | 5,659,687       | 08/19/1997       | Kim et al.           | 710   | 112      |                            |
|                       | AKKKKK    | 5,649,157       | 07/15/1997       | Williams             | 711   | 151      |                            |
|                       | ALLLLL    | 5,644,623       | 07/01/1997       | Gutledge             | 455   | 423      |                            |
|                       | AMMMMM    | 5,630,641       | 05/13/1997       | Perotto et al.       | 296   | 224      |                            |
|                       | ANNNNN    | 5,627,829       | 05/06/1997       | Gleeson et al.       | 370   | 230      |                            |
|                       | AOOOOO    | 5,623,489       | 04/22/1997       | Cotton et al.        | 370   | 381      |                            |
|                       | APPPPP    | 5,613,136       | 03/18/1997       | Casavant et al.      | 712   | 28       |                            |
|                       | AQQQQQ    | 5,613,071       | 03/18/1997       | Rankin et al.        | 707   | 10       |                            |
|                       | ARRRRR    | 5,592,622       | 01/07/1997       | Isfeld et al.        | 709   | 207      |                            |
|                       | ASSSSS    | 5,574,922       | 11/12/1996       | James                | 712   | 220      |                            |
|                       | ATTTTT    | 5,568,617       | 10/22/1996       | Kametani             | 710   | 100      |                            |
|                       | AUUUUU    | 5,557,766       | 09/17/1996       | Takiguchi et al.     | 711   | 5        |                            |
|                       | AVVVVV    | 5,550,816       | 08/27/1996       | Hardwick et al.      | 370   | 397      |                            |
|                       | AWWWWW    | 5,544,236       | 08/06/1996       | Andruska et al.      | 379   | 201.02   |                            |
|                       | AXXXXX    | 5,542,088       | 07/30/1996       | Jennings, Jr. et al. | 718   | 103      |                            |
|                       | AYYYYY    | 5,542,070       | 07/30/1996       | LeBlanc et al.       | 703   | 20       |                            |
|                       | AZZZZZ    | 5,517,648       | 05/14/1996       | Bertone et al.       | 710   | 244      |                            |
|                       | AAAAAA    | 5,467,452       | 11/14/1995       | Blum et al.          | 709   | 244      |                            |
|                       | ABBBBB    | 5,463,625       | 10/31/1995       | Yasrebi              | 370   | 401      |                            |
|                       | ACCCCC    | 5,459,842       | 10/17/1995       | Begun et al.         | 711   | 155      |                            |
|                       | ADDDDD    | 5,452,437       | 09/19/1995       | Richey et al.        | 714   | 4        |                            |
| EC                    | AEEEEEE   | 5,450,351       | 09/12/1995       | Heddes               | 365   | 49       |                            |

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| Examiner Signature<br><i>Eric P. H.</i>  | Date Considered<br>4/15/05 |
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| Substitute Form PTO-1449<br>(Modified)<br><br><b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office |  | Attorney's Docket No.<br>10559-076002 | Application No.<br>10/643,438 |
|  | Applicant<br>Debra Bernstein et al.                        |  |                                       |                               |
|  | Filing Date<br>08/19/03                                    |  | Group Art Unit<br>Unknown             |                               |

| U.S. Patent Documents |                   |                      |                       |                            |       |          |                            |
|-----------------------|-------------------|----------------------|-----------------------|----------------------------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID         | Document Number      | Publication Date      | Patentee                   | Class | Subclass | Filing Date If Appropriate |
| EC                    | AFFFFF            | 5,448,702            | 09/05/1995            | Garcia, Jr. et al.         | 710   | 100      |                            |
|                       | AGGGGG            | 5,432,918            | 07/11/1995            | Stamm                      | 711   | 158      |                            |
|                       | AHHHHH            | 5,404,484            | 04/04/1995            | Bennett                    | 711   | 133      |                            |
|                       | AIIIII            | 5,404,482            | 04/04/1995            | Stamm et al.               | 711   | 145      |                            |
|                       | AJJJJJ            | 5,392,412            | 02/21/1995            | McKenna                    | 710   | 52       |                            |
|                       | AKKKKK            | 5,392,411            | 02/21/1995            | Ozaki                      | 711   | 1        |                            |
|                       | ALLLLL            | 5,392,391            | 02/21/1995            | Caulk, Jr. et al.          | 345   | 503      |                            |
|                       | MMMMM             | 5,390,329            | 02/14/1995            | Gaertner et al.            | 718   | 108      |                            |
|                       | NNNNNN            | 5,367,678            | 11/22/1994            | Lee et al.                 | 718   | 104      |                            |
|                       | OOOOOO            | 5,347,648            | 09/13/1994            | Stamm et al.               | 714   | 5        |                            |
|                       | PPPPPP            | 5,263,169            | 11/16/1993            | Genusov et al.             | 712   | 7        |                            |
|                       | QQQQQQ            | 5,255,239            | 10/19/1993            | Taborn et al.              | 365   | 221      |                            |
| EC                    | RRRRRR            | 5,173,897            | 12/22/1992            | Schrodi et al.             | 370   | 394      |                            |
|                       | <del>SSSSSS</del> | <del>5,173,897</del> | <del>12/22/1992</del> | <del>Pfeiffer et al.</del> |       |          |                            |
| EC                    | TTTTTT            | 5,168,555            | 12/01/1992            | Byers et al.               | 713   | 2        |                            |
|                       | UUUUUU            | 5,155,854            | 10/13/1992            | Flynn et al.               | 718   | 104      |                            |
|                       | VVVVVV            | 5,155,831            | 10/13/1992            | Emma et al.                | 711   | 121      |                            |
|                       | WWWWW             | 5,142,683            | 08/25/1992            | Burkhardt, Jr. et al.      | 709   | 215      |                            |
|                       | XXXXXX            | 5,140,685            | 08/18/1992            | Sipple et al.              | 711   | 164      |                            |
|                       | YYYYYY            | 4,866,664            | 09/12/1989            | Burkhardt, Jr. et al.      | 709   | 227      |                            |
|                       | ZZZZZZ            | 4,745,544            | 05/17/1988            | Renner et al.              | 712   | 11       |                            |
|                       | AAAAAA            | 4,523,272            | 06/11/1985            | Fukunaga et al.            | 710   | 107      |                            |
|                       | BBBBBB            | 4,514,807            | 04/30/1985            | Nogi                       | 712   | 21       |                            |
|                       | CCCCCC            | 4,400,770            | 08/23/1983            | Chan et al.                | 711   | 3        |                            |
|                       | DDDDDD            | 4,130,890            | 12/19/1978            | Adam                       | 365   | 184      |                            |
|                       | EEEEEE            | 3,940,745            | 02/24/1976            | Sajeva                     | 710   | 244      |                            |
| EC                    | AFFFFF            | 3,792,441            | 02/12/1974            | Wymore et al.              | 712   | 248      |                            |

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| Examiner Signature<br>  | Date Considered<br>4/15/05 |
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| Substitute Form PTO-1449<br>(Modified)<br><br><b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>10559-076002 | Application No.<br>10/643,438 |
|  | Applicant<br>Debra Bernstein et al.                        |                                       |                               |
|  | Filing Date<br>08/19/03                                    | Group Art Unit<br>Unknown             |                               |

| U.S. Patent Documents |           |                 |                  |                 |       |          |                            |
|-----------------------|-----------|-----------------|------------------|-----------------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee        | Class | Subclass | Filing Date If Appropriate |
| EC                    | GGGGGG    | 3,478,322       | 11/11/1969       | Evans           | 712   | 248      |                            |
| EC                    | HHHHHH    | 3,373,408       | 03/12/1968       | Ling            | 712   | 228      |                            |
| EC                    | IIIIII    | 10/726,757      | 12/03/2003       | Wolrich et al.  |       |          |                            |
|                       | AJJJJJJ   | 10/684,078      | 10/10/2003       | Wolrich et al.  |       |          |                            |
|                       | KKKKKK    | 10/664,202      | 09/16/2003       | Wolrich et al.  |       |          |                            |
|                       | LLLLLL    | 10/644,337      | 08/20/2003       | Wolrich et al.  |       |          |                            |
|                       | MMMMMM    | 10/615,500      | 07/08/2003       | Adiletta        |       |          |                            |
|                       | NNNNNN    | 10/615,280      | 07/08/2003       | Wolrich et al.  |       |          |                            |
|                       | OOOOOO    | 10/440,079      | 05/15/2003       | Wolrich et al.  |       |          |                            |
|                       | PPPPPP    | 10/208,264      | 07/30/2002       | Adiletta et al. |       |          |                            |
|                       | QQQQQQ    | 09/476,303      | 12/30/1999       | Wolrich et al.  |       |          |                            |
|                       | RRRRRR    | 09/475,614      | 12/30/1999       | Wolrich et al.  |       |          |                            |
|                       | SSSSSS    | 09/473,571      | 12/28/1999       | Wolrich et al.  |       |          |                            |
| EC                    | TTTTTT    | 09/387,109      | 08/31/1999       | Adiletta et al. |       |          |                            |

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|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                 |                  |                          |       |          | Yes         | No |
| EC  | ✓ UUUUUU  | WO 01/50679     | 07/12/2001       | WIPO                     | _____ | _____    |             |    |
|   | ✓ VVVVVV  | WO 01/50247     | 07/12/2001       | WIPO                     | _____ | _____    |             |    |
|   | ✓ WWWWW   | WO 01/48619     | 07/05/2001       | WIPO                     | _____ | _____    |             |    |
|   | ✓ XXXXXX  | WO 01/48606     | 07/05/2001       | WIPO                     | _____ | _____    |             |    |
|   | ✓ YYYYYY  | WO 01/48596     | 07/05/2001       | WIPO                     | _____ | _____    |             |    |
|   | ✓ ZZZZZZ  | WO 01/16782     | 03/08/2001       | WIPO                     | _____ | _____    |             |    |
|   | ✓ AAAAAA  | WO 01/16770     | 03/08/2001       | WIPO                     | _____ | _____    |             |    |
|   | ✓ BBBBBB  | WO 01/16769     | 03/08/2001       | WIPO                     | _____ | _____    |             |    |
|   | ✓ CCCCCC  | WO 01/15718     | 03/08/2001       | WIPO                     | _____ | _____    |             |    |
| EC  | ✓ DDDDDD  | WO 97/38372     | 10/16/1997       | WIPO                     | _____ | _____    |             |    |


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| Examiner Signature<br><i>Eui Col</i>   | Date Considered<br><i>4/15/05</i> |
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| Substitute Form PTO-1449<br>(Modified)<br><br><b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office |  | Attorney's Docket No.<br>10559-076002 | Application No.<br>10/643,438 |
|  | Applicant<br>Debra Bernstein et al.                        |  |                                       |                               |
|  | Filing Date<br>08/19/03                                    |  | Group Art Unit<br>Unknown             |                               |

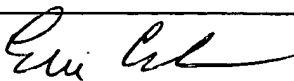
| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |             |    |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                 |                  |                          |       |          | Yes         | No |
| EC  | EEEEEEEE  | WO 94/15287     | 07/07/1994       | WIPO                     |       |          |             |    |
| EC  | FFFFFFF   | EP 0 809 180    | 11/26/1997       | Europe                   |       |          |             |    |
| EC  | GGGGGGG   | EP 0 745 933    | 12/04/1996       | Europe                   |       |          |             |    |
| EC  | HHHHHHH   | EP 0 633 678    | 01/11/1995       | Europe                   |       |          |             |    |
| EC  | IIIIIIII  | EP 0 464 715    | 01/08/1992       | Europe                   |       |          |             |    |
| EC  | JJJJJJJJ  | EP 0 379 709    | 08/01/1990       | Europe                   |       |          |             |    |
| EC  | KKKKKKK   | 59111533        | 06/27/1984       | Japan                    |       |          |             |    |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |  |
|---|-----------|--|
| Examiner Initial  | Desig. ID | Document   |
| EC  | LLLLLLLL  | Byrd et al., "Multithread Processor Architectures," <i>IEEE Spectrum</i> , Vol. 32, No. 8, New York, 1 August 1995, pp. 38-46.   |
| EC  | MMMMMMMM  | Doyle et al., <i>Microsoft Press Computer Dictionary</i> , 2 <sup>nd</sup> ed., Microsoft Press, Redmond, Washington, USA, 1994, p. 326.   |
| EC  | NNNNNNNN  | Fillo et al., "The M-Machine Multicomputer," <i>IEEE Proceedings of MICRO-28</i> , 1995, pp. 146-156.  |
| EC  | OOOOOOOO  | Gomez et al., "Efficient Multithreaded User-Space Transport for Network Computing: Design and Test of the TRAP Protocol," <i>Journal of Parallel and Distributed Computing</i> , Academic Press, Duluth, Minnesota, USA, vol. 40, no. 1, 10 January 1997, pp. 103-117. |
| EC  | PPPPPPPP  | Haug et al., "Reconfigurable hardware as shared resource for parallel threads," <i>IEEE Symposium on FPGAs for Custom Computing Machines</i> , 1998.   |
| EC  | QQQQQQQQ  | Hauser et al., "Garp: a MIPS processor with a reconfigurable coprocessor," <i>Proceedings of the 5<sup>th</sup> Annual IEEE Symposium on Field-Programmable Custom Computing Machines</i> , 1997.  |
| EC  | RRRRRRRR  | Hyde, R., "Overview of Memory Management," <i>Byte</i> , vol. 13, no. 4, 1998, pp. 219-225.  |
| EC  | SSSSSSSS  | Litch et al., "StrongARMing Portable Communications," <i>IEEE Micro</i> , 1998, pp. 48-55.   |
| EC  | TTTTTTTT  | Schmidt et al., "The Performance of Alternative Threading Architectures for Parallel Communication Subsystems," <i>Internet Document, Online!</i> , 13 November 1998.  |
| EC  | UUUUUUUU  | Thistle et al., "A Processor Architecture for Horizon," <i>IEEE</i> , 1998, pp. 35-41.   |
| EC  | VVVVVVVV  | Tremblay et al., "A Three Dimensional Register File for Superscalar Processors," <i>IEEE Proceedings of the 28<sup>th</sup> Annual Hawaii International Conference on System Sciences</i> , 1995, pp. 191-201.   |
| EC  | WWWWWWW   | Trimberger et al., "A time-multiplexed FPGA," <i>Proceedings of the 5<sup>th</sup> Annual IEEE Symposium on Field-Programmable Custom Computing Machines</i> , 1998.   |
| EC  | XXXXXXXX  | Turner et al., "Design of a High Performance Active Router," <i>Internet Document, Online</i> , 18 March 1999.   |

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| Examiner Signature    | Date Considered 4/15/05 |
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| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br><b>Debra Bernstein et al.</b>   |                                      |
|  |  | Filing Date<br><b>08/19/03</b>               | Group Art Unit<br><b>Unknown</b>     |

| <b>Other Documents (include Author, Title, Date, and Place of Publication)</b> |           |   |
|--|-----------|---|
| Examiner Initial   | Desig. ID | Document  |
| EC ✓   | YYYYYYYY  | Vibhatavanijt et al., "Simultaneous Multithreading-Based Routers," Proceedings of the 2000 International Conference of Parallel Processing, Toronto, Ontario, Canada, 21-24 August 2000, pp. 362-359. |
| EC ✓   | ZZZZZZZZ  | Wazlowski et al., "PRSIM-II computer and architecture," IEEE Proceedings, Workshop on FPGAs for Custom Computing Machines, 1993.  |

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